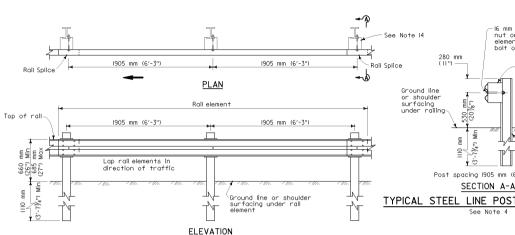
Ellis K.Hirst

C17926 p.6-30-05

altrans now has a web site! To get to the web site, go to: http://www.dat.ca.go



16 mm (5%") ø Button head bolt with hex nut on threaded end of bolt. Attached rail element to wood block and steel post with bolt on traffic approach side of post web.

150 mm × 200 mm × 360 mm

(6" x 8" x 1'-2") notched wood block. See Note 14.

MW 150 × 14

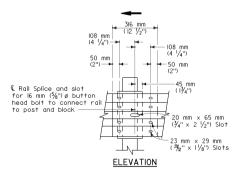
Steel Post

(W 6 × 8)

Post spacing 1905 mm (6'-3") C-C

TYPICAL STEEL LINE POST INSTALLATION

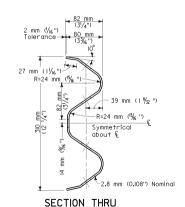
METAL BEAM GUARD RAILING WITH STEEL POSTS AND WOOD BLOCKS



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RAIL ELEMENT SPLICE DETAIL

Connect the overlapped ends of the rall elements with life m øx 35 mm ($\%_8$ " øx 1/4") button head oval shoulder bolts inserted into the 23 mm $\times 29$ mm ($\%_8$ " x 1/4") slots and bolted together with 16 mm øx 35 mm ($\%_8$ " øx 1/4") recessed hex nuts. A total of 8 bolts and nuts are to be used at each rail splice connection. The ends of the rail elements are to be overlapped in the direction of traffic (see details). Where a terminal section or end section is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be



RAIL ELEMENT

NOTES:

- I. For details of wood post and wood block installations, see Standard Plan A77A.
- 2. For details of standard hardware used to construct guard railing, see Standard Plan A77B.

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- 3. For details of steel posts and wood blocks used to construct auard railing, see Standard Plan A77CA.
- 4. For additional installation details, see Standard Plan A77FA.
- 5. Guard railing post spacing to be 1905 mm (6'-3") center to center. except as otherwise noted.
- 6. For guard railing typical layouts, see Standard Plans A77D and
- 7. For embankment widening details to accommodate guard railing terminal system end treatments, see Standard Plan A77F.
- 8. For typical terminal system end treatments, see Standard Plans A77L, A77M and A77N. For type of terminal system to be used, see Project Plans.
- 9. For guard railing terminal anchor details, see Standard Plans A77G A77G, A77I and A77IA.
- 10. For guard railing connection details to bridge railing, retaining walls and abutments, see Standard Plan A77J.
- II. For guard railing connection details to bridge sidewalks and curbs, see Standard Plan A77K.
- 12. For dike positioning with guard railing installations, see Standard Plan A77F
- Direction of traffic indicated by ----
- 14. Notched face of wood block faces steel post.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL STEEL POST WITH WOOD BLOCK

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

A77AA